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	SUBJECT	Beryl Depo	sits				N	O. OF PAGE	:S 3	50X1	
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		and tin are	classi	fied '	as deficit	minerals.	Soughter	res for t	he he		
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	2.	producing	regions	are :	in the aver	The exec of	at of Ta	ke Baikal	.).	•	
		Beryllium	mineral	s are	also roun	i III oue was	nigologic	literatur	e.		
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- 2 -
- a. In the Murzinka (57 42N 61 01E) region, 80-100 kilometers northeast of Sverdlovsk (56 50N 60 38E) -- the oldest known Soviet deposit, discovered in 1668. Aquamarine, common beryl, morganite, and herderite are present in pegmatite veins, but according to Betekhin (1946), the deposit is largely exhausted.

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b. In the Takowaya \(\sic^7 \) River Valley of the Sverdlovsk area near Sretenka (54 03N - 65 44m) -- phenacite, emerald, and aquamarine. Alexandrite and chrysoberyl important as gems occur here in gold bearing sands. There is no available data about the deposits' economic value.

c. In the Ilmen Mountains /Il'menskiye Gory (Mts) (55 15N, 60 12E) near Miask /Miass 55 02N - 60 06E/ -- helvite containing beryllium ore.

- d. In the Sanarka Valley /Sakmara 51 45N 55 03E/ near Orenburg /Chkalov 51 45N 55 06E/ -- alexandrite and chrysoberyl, important as gems, in gold bearing sands.
- e. At Sysertsk /Sysert 56 29N 60 50E7 -- demantoid:
- f. At the Izumrudnyie Kopi (emerald mine) /Izumrud 57 05N 61 25E/ -- 92 kilometers northeast of Sverdlovsk and 12 kilometers west af the Backshows/Bazhenovo 56 45N 61 23E/ asbestos deposit. Beryllium minerals associated with pegmatite veins and with chlorite-actinolite schists are mined here at a depth of 75 meters. This is the USSR's most important deposit of beryl and its varieties and the deposit is composed mostly of the gems alexandrite, emerald, phenacite, chrysoberyl, and common beryl. It was discovered in 1831 and is comparable in importance to the greatest US deposits according to Betekhin. The mine has exploited beryl since 1928 as a source of the metal beryllium and fragments of emerald, otherwise useful as gems, are being mined for the same purpose:
- g. In Transbaikalia at Savatyeiowo Savel'yevskaya, 56 06N, 100 01E7
 Nerchinsk (51 50N 116 35E) district, between the
 Onon (51 41N 115 47E) and Shilka (53 20N 121 26E)
 Rivers in the Adun-Cholon Mountains, especially at Sherlovaya
 Gora (50 35N 116 21E) -- beryl, morganite, and aquamarine
 with topaz. According to the Soviet Encyclopedia of 1926,
 this deposit was not being exploited. More recently,
 however beryl deposits
 were surveyed and are producing some some some berylium
 per year.
- h. Near Irkutsk (52 16N 104 20E) in Siberia -- bertrandrite deposit.
- i. In Pamir /Pamir Mts/ (38 00N, 73 00E) in Mongolia at Soktouy /Soktuy 50 04N 117 48E/ on the Argun River. No exact data about economic value.
- j. In the Ukraine in Volnynien /sic/ at Ovrouch /sic/ Mariupol (47 05N - 37 36 E) district - beryl deposits of little economic significance.

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k. In the Satellites -- a small reserve of beryl in Polish Silesia at Strikov and another in North Korea.

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50X1

- 3 -

3. The following table shows the output of beryl and its varieties in 1927-28:

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Name	Location	Carats	Price (Rubles per Carat)	Total Value (Rubles)	Reserves
Emerald	Izumrudnyie Kopi	45,000	25	625,000	2 million carats
Alexandrite	11 11	250	50	12,500	1 ton
P henacite	$\hat{\mathbf{H}} = \mathbf{H}^{(1)} \otimes \hat{\mathbf{H}}^{(2)} \otimes \hat{\mathbf{H}^{(2)} \otimes \hat{\mathbf{H}}^{(2)} \otimes \hat{\mathbf{H}}^{(2)} \otimes \hat{\mathbf{H}}^{(2)} \otimes \hat{\mathbf{H}$	1,000	5 5	5,000	1 ton
Demantoid	Sysertsk	12,000	5) ne	60,000	no data
Morganite	Transbaikali a	500	3	1,500	small
Beryl Aquamarine	Aduyi /Aduy 57 19N - 61 00E/		0.2		considerable
	ox one Bashenove fB:	**		Roman (Color Supplied Color Supplied	

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